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## Product Data Sheet

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Product Name: POLR3K Human  
 Cat. No.: GP22120  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DNA-directed RNA polymerase III subunit RPC10; RNA polymerase III subunit C10; DNA-directed RNA polymerase III subunit K; RNA polymerase III 12.5 kDa subunit; RPC12.5; RNA polymerase III subunit C11; HsC11p; RPC11; hRPC11; POLR3K; My010; Polymerase III Polypeptide K; C11; C11-RNP3; hRPC11; RPC10.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMLLFCPG CGNGLIVEEG QRCHRFACNT CPYVHNITRK VTNRKYPKPK EVDDVLGGAA AWENVNSTAE SCPKCEHPRA YFMQLQTRSA DEPMITTFYKC CNAQCGHRWR D.		
Formulation	POLR3K protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 50% glycerol, 2mM DTT and 2mM EDTA.		

### Introduction

Polymerase III Polypeptide K, known as POLR3K, is a small vital subunit of RNA polymerase III. The carboxy-terminal domain of POLR3K owns a sequence which is very similar to the carboxy-terminal domain of an RNA polymerase II elongation factor. POLR3K takes part in sensing and limiting infection by intracellular bacteria and DNA viruses. POLR3K is also plays a role as nuclear and cytosolic DNA sensor which takes part in the innate immune response.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

POLR3K Human Recombinant produced in E.Coli is a single, non-glycosylated

**Caution: Product has not been fully validated for medical applications. For research use only.**

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polypeptide chain containing 131 amino acids (1-108 a.a) and having a molecular mass of 14.7kDa. POLR3K is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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